TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2018-06-15-01** **Date: 15-06-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.

Agency : C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.

Customer Reference : BBMP/EE/BTP/WO/74/2016-17

Source of Sample : Sample supplied by Agency

Date of Receipt : 15-06-2018

Sample ID No : 2018-06-15-01/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 15-06-2018

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.20	6.00
4	Average percentage	%	6.1	

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Authorized Signatory
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CIVIL Pro Sig..... Date..... BANGALORE

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Lab ID : **CP-RW-2018-06-15-01** **Date: 15-06-2018**

Sample ID : **2018-06-15-01/01**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	66	73	15.6	84.4	70-88
4.75	134	207	44.1	55.9	53-71
2.36	60	267	56.9	43.1	42-58
1.18	33	300	64.0	36.0	34-48
0.6	25	325	69.3	30.7	26-38
0.3	54	379	80.8	19.2	18-28
0.15	10	389	82.9	17.1	12-20
0.075	59	448	95.5	4.5	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	9	9	1.9	98.1	90-100
9.5	74	83	17.7	82.3	70-88
4.75	129	212	45.1	54.9	53-71
2.36	51	263	56.0	44.0	42-58
1.18	39	302	64.3	35.7	34-48
0.6	21	323	68.7	31.3	26-38
0.3	55	378	80.4	19.6	18-28
0.15	32	410	87.2	12.8	12-20
0.075	46	456	97.0	3.0	4-10

Note:-

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : **CP-RW-2018-06-12-01** **Date: 15-06-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.

Agency : C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.

Customer Reference : BBMP/EE/BTP/WO/74/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-06-2018

Sample ID No : 2018-06-12-01/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 12-06-2018

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	11.9	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	12.2		
Strength	Aggregate Impact Value	23.2	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.64	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.2	Maximum 2%	IS:2386 Part III

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2018-06-12-01** **Date: 15-06-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.

Agency : C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.

Customer Reference : BBMP/EE/BTP/WO/74/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-06-2018

Sample ID No : 2018-06-12-01/01

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 12-06-2018

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	87	87	1.7	98.3	90-100
9.5	706	793	15.9	84.1	70-88
4.75	891	1684	33.7	66.3	53-71
2.36	593	2277	45.5	54.5	42-58
1.18	502	2779	55.6	44.4	34-48
0.6	492	3271	65.4	34.6	26-38
0.3	537	3808	76.2	23.8	18-28
0.15	448	4256	85.1	14.9	12-20
0.075	343	4599	92.0	8.0	4-10
PAN	401	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-06-12-01** **Date: 15-06-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.
Agency	:	C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.
Customer Reference	:	BBMP/EE/BTP/WO/74/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-2018
Sample ID No	:	2018-06-12-01/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	12-06-2018

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	97.8	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.0	2.0		

Note:-
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-06-12-01** **Date: 15-06-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.
Agency	:	C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.
Customer Reference	:	BBMP/EE/BTP/WO/74/2016-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-2018
Sample ID No	:	2018-06-12-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	12-06-2018

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.52	11.47	10KN(min)
2	Marshal flow at 60°C, mm	3.48	3.53	2-4
3	Percent air Voids	4.82	4.78	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.45	71.38	65-75
6	Density, g/cc	2.23	2.24	–

Note:-
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All information furnished by Customer/Representative
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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-06-06-01** **Date: 07-06-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.
Agency	:	C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.
Customer Reference	:	BBMP/EE/BTP/WO/74/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-06-2018
Sample ID No	:	2018-06-06-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	06-06-2018

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.3	302.3
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.6	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	228.4	227.9
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.4
5	Aggregate impact value	(B/A)*100	24.3	24.5
6	Aggregate impact value (Mean of two tests)	Pecentage	24.4	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-06-06-01** **Date: 07-06-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.
Agency	:	C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.
Customer Reference	:	BBMP/EE/BTP/WO/74/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-06-2018
Sample ID No	:	2018-06-06-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	06-06-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.4%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.5%	
Combined Flakiness and Elongation Index for WMM	23.9%	

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-06-06-01** **Date: 07-06-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.

Agency : C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.

Customer Reference : BBMP/EE/BTP/WO/74/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-06-2018

Sample ID No : 2018-06-06-01/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 06-06-2018

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	326	326	3.0	97.0	95-100
22.4	2249	2575	23.4	76.6	60-80
11.2	2379	4954	45.0	55.0	40-60
4.75	2151	7105	64.6	35.4	25-40
2.36	1621	8726	79.3	20.7	15-30
0.6	623	9349	85.0	15.0	8-22
0.075	1338	10687	97.2	2.8	0-5

Note:-

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-06-06-01** **Date: 08-06-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.

Agency : C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.

Customer's Reference : BBMP/EE/BTP/WO/74/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-06-2018

Sample ID No : 2018-06-06-01/01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 06-06-2018

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.78	–
2	Finess by Air permeablity method (m^2/kg, Min)	291.4	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	195 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Page 1/1
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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-06-01** **Date: 09-06-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.

Agency : C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.

Customer's Reference : BBMP/EE/BTP/WO/74/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-06-2018

Sample ID No : 2018-06-06-01/02

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 06-06-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	174	195	19.5	80.5	60-95	75-100	85-100	95-100
4	1.18 mm	214	409	40.9	59.1	30-70	55-90	75-100	90-100
5	600 micron	224	633	63.3	36.7	15-34	35-59	60-79	80-100
6	300 micron	178	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	124	935	93.5	6.5	0-10	0-10	0-10	0-15
8	Pan	65	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-06-01** **Date: 09-06-2018**

Sample ID No : 2018-06-06-01/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.14	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	5.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-06-09-01** **Date: 10-06-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains to GKVK Road(Shanimahathma Temple Road) Thindlu Village in Ward No.09 Vidyaranyapura Sub Division.
Agency	:	C.Shivaraju, No.18, Nanjundeswara Nilaya, 1st Main, 1st Cross, Durgaparameshwari layout, Vidyaranyapura, Bangalore-97.
Customer's Reference	:	BBMP/EE/BTP/WO/74/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-06-2018
Sample ID No	:	2018-06-09-01/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	09-06-2018

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	65.3	60 to 70
2	Softening Point, °C	48.4	Min. 40°C
3	Ductility, cm	96	Min. 75cm
4	Flash point, °C	238	Min. 220°C
	Fire point, °C	246	

Note:

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